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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 99/836,998 04/18/01 TAKAO F 01244/LH

- 001933 MM92/1019
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EXAMINER GONZALEZ, J

ART UNIT PAPER NUMBER
2834

DATE MAILED:

10/19/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application No.	Applicant(s)
Office Action Summary		09/836,998	TAKAO ET AL.
		Examiner	Art Unit
	LINO DATE AND	Julio C. Gonzalez	2834
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any			
Status			
	ive to communication(s) filed on	_ ·	
		s action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-7</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10)⊠ The drawing(s) filed on <u>18 April 2001</u> is/are: a)⊡ accepted or b)⊠ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.			
12) The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:			
1.⊠ Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 			
Attachment(s)			
3) Information Disclosi	es Cited (PTO-892) son's Patent Drawing Review (PTO-948) ure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) tent Application (PTO-152)
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Action	n Summary	Part of Paper No. 5

Application/Control Number: 09/836,998

Art Unit: 2834

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the pair of side surface portions disclosed in claims 1, 3 and 4 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, applicant discloses a pair of conductive members 3 and external electrodes 2 being spaced from the external electrodes. According to figure 2C, the external electrodes and the conductive are not spaced apart. According to claim 1, what is facing the multilayer surface, the conductive member or the external electrode? The statement, "each of said internal electrodes is placed between adjacent ones of said internal electrodes", what is it meaning? How can the internal electrodes be placed on themselves?

In claim 3, what are the pair of side surfaces, the external electrodes or the conductive members? Are the side surfaces a complete independent part of the invention? It seems from figure 2C that the pair of side surfaces are the conductive member, is it?

Application/Control Number: 09/836,998

Art Unit: 2834

In claim 4, how are the internal electrodes exposed of the side surface portions? It seems from claim 4 and figure 2C that the side surfaces are the external electrodes, are they?

In claim 6, what is meant by the internal electrodes having a face being flushed and retracted?

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-6 are rejected, AS UNDERSTOOD, under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ueno et al (Patent # 5,866,196) in view of Mori.

Ueno et al discloses a multiplayer piezoelectric device having internal electrodes 2, external electrodes 3 which are connected to the internal electrodes. A pair of conductive member 4 connected to the external electrodes 3, a pair of side surfaces 7 and the internal electrodes have an end face which is flush with one of the side surface (see figure 13).

Mori discloses for the purpose of providing a piezoelectric device less susceptible to damage that the piezo device has a pair of side surfaces 50a.

Application/Control Number: 09/836,998

Art Unit: 2834

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made
- 7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ueno et al in view of Mori and Unami (Patent # 5,932,951).

Ueno et al discloses a multiplayer piezoelectric device having internal electrodes 2, external electrodes 3 which are connected to the internal electrodes. A pair of conductive member 4 connected to the external electrodes 3, a pair of side surfaces 7 and the internal electrodes have an end face which is flush with one of the side surface (see figure 13).

Mori discloses for the purpose of providing a piezoelectric device less susceptible to damage that the piezo device has a pair of side surfaces 50a.

However, neither Ueno et al nor Mori disclose that the internal electrodes have insulation.

On the other hand, Unami discloses for the purpose of minimizing design and manufacturing of piezoelectric resonators thus enabling the piezo resonator in narrow frequency bands that the internal electrodes 14 have insulation 18 (see figure 2).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a piezoelectric device as disclosed by Ueno et al and Mori and to modify the invention by having the internal electrodes with insulation for the purpose of minimizing design and manufacturing of piezoelectric resonators thus enabling the piezo resonator in narrow frequency bands as disclosed by Unami.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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SUPERVISORY PATRICE EXAMINER

Jcg

October 11, 2001